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# SOCIETY

FOR THE

ENCOURAGEMENT

OF

Arts, Manufactures, and Commerce.

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PREMIUMS

FOR THE SESSIONS

1838—1839,  
1839—1840.

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LONDON:

PRINTED BY ORDER OF THE SOCIETY,

*FOR GRATUITOUS DISTRIBUTION;*

AND MAY BE HAD, BY APPLICATION, AT THEIR HOUSE, IN THE ADELPHI.

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PRINTED BY J. MOYES, CASTLE STREET, LEICESTER SQUARE.

1838.

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## ADVERTISEMENT TO THE PUBLIC.

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THE chief object of the Society is to promote the Arts, Manufactures, and Commerce, of this Kingdom, by giving honorary or pecuniary Rewards, as may be best adapted to the case, for the communication to the Society, and through the Society to the Public, of all such useful Inventions, Discoveries, and Improvements (whether specified in these Premiums or not), as tend to that purpose: in pursuance of this plan, the Society have already expended upwards of a *Hundred Thousand Pounds*, derived from voluntary Subscriptions and Legacies.

The Meetings of the Society are held every Wednesday, at seven o'clock in the evening, from the first Wednesday in November to the second Wednesday in June. The Committees meet on other evenings in the week during the session, for the purpose of taking into consideration the subjects referred to them by the Society. A person desirous of becoming a Member of the Society may be proposed according to the following form, which must be signed by three Members of the Society, and delivered in to the Secretary:

A. B. [*Trade, profession, or designation of the Candidate,*] proposed as a Member of the Society for the Encouragement of Arts, Manufactures, and Commerce, by

C. D.

E. F.

G. H.

[*Date.*]

Peers of the realm, or lords of parliament, are, on their being proposed, immediately balloted for; the names of other persons proposed to become members are read by the Secretary to the Society, and are then inserted in lists which are hung up in the Society's room: they are balloted for at the second following ordinary meeting. In both cases, if two-thirds of the members then voting ballot in their favour, they are deemed perpetual members on payment of not less than twenty guineas in one sum, or subscribing members on payment of any sum not less than two guineas annually.

Ladies are eligible to be members of the Society, and are entitled to vote personally, or by proxy, if such proxy be presented by a member.

Members are entitled to vote and assist in all the business of the Society and of the several committees. They have also the privilege of recommending two persons as visitors at the meetings of the Society; and, by addressing a note to the housekeeper, of introducing their friends on any week-day, except Wednesday, between the hours of ten and two, to examine the various models, machines, and productions, in different branches of arts, manufactures, and commerce, for which rewards have been bestowed; also to inspect the magnificent series of moral and historical paintings, executed by Barry, which, with some valuable busts, statues, portraits, &c. decorate the public rooms of the Society.

Members have also the privilege of admission to the monthly conversazione and illustrations of some subject of scientific interest, with a ticket for a friend, and of admission to the annual distributions of rewards, with three tickets for friends.

Members have the use of the Society's library, which is valuable, and annually increasing by the purchase and donation of scientific and useful books, and of engravings. Contributions from members and others, in augmentation of the library, and of the collection of maps and prints, will be

will be thankfully received, and acknowledged in the annual volume of the Society's Transactions, to a copy of which every member is entitled.

The Society desire it to be clearly understood, that they cannot be responsible for any opinion or representation of facts contained in their volumes. And the public are requested to guard against imposition from persons advertising as having patents for articles rewarded by the Society; they are also cautioned against purchasing articles sold under the pretended sanction of the Society's name.

The Society have lately published the 51st volume of their Transactions, which may be had by members on application to the housekeeper. Complete sets of their Transactions, or any single volume, may be purchased at the Society's house; where may be had also,

An *Analytical Index of the first twenty-five volumes* of the Transactions, to the termination of the session, June 1807, price 1s.

Ditto, continued to the end of the 40th volume, price 1s.

Ditto, to the end of the 50th volume, price 1s.

A catalogue of books in the Society's library, price 1s.

A description of Barry's paintings in the great room of the Society.

The Society have also republished Barry's own etchings from his pictures in the Society's great room, consisting of eight large plates and six small, together with his *Lear*, and an etching from his picture of *Pandora* by Schiavonetti; which may be had, half-bound, for two guineas to members, and three guineas to the public.

To persons inclined to leave a sum of money to this Society by will, the following form is offered for that purpose;

I give and bequeath to A. B. and C. D. the sum of \_\_\_\_\_, upon condition and to the intent, that they, or one of them, do pay the same to the collector, for the time being, of a Society in London, who now call themselves *the Society for the Encouragement of Arts, Manufactures, and Commerce*; which said sum of \_\_\_\_\_ I will and desire may be paid out of my personal estate, and applied towards carrying on the laudable designs of the Society.

All communications are to be made by letter, addressed to ARTHUR AIKIN, Esq. the Secretary, at the Society of Arts, &c. Adelphi, London; and where articles are sent by sea for the Society, the bills of lading are to be addressed to WILLIAM VAUGHAN, Esq. 70 Fenchurch Street, London, who has undertaken to receive them for the Society.

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## GENERAL NOTICE TO CANDIDATES.

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THE great object of the Society, in rewarding individuals, is to draw forth and give currency to those inventions and improvements which are likely to benefit the public at large. Candidates are therefore requested to observe, that if the means by which the respective objects are effected require an expense or trouble too great for general purposes, the Society will not consider themselves bound to give the offered reward; but though they expressly reserve the power, in all cases, of giving such part only of any premium as the performance shall be adjudged to deserve, or of withholding the whole if there be no merit, yet the candidates may be assured the Society will always judge liberally of their several claims.

The Society by no means restrict their liberality to the subjects for which premiums are specially offered; but will take into consideration, and will reward by a bounty proportioned to its merit, any communication, the subject of which is of a practical

## CLASS OF AGRICULTURE.

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nature, and calculated to promote the public good, provided a description of the same has not previously been published.

All communications are to be made by letter (post-paid), addressed to the Secretary; and are to contain full and particular details, according to the nature of the subject, as well as accurate descriptions of such drawings and models as form part of the communication: the models to be sent *carriage-paid*.

No person shall receive any premium, bounty, or encouragement, from the Society, for any matter for which he has obtained any premium or reward from any other Society, or for which he has obtained, or purposes to obtain, a patent: it being a condition stipulated with every candidate, that all articles rewarded by the Society shall be freely given up to the public, to be made or manufactured by any person whomsoever.

All models, the production of which is attached as a condition to any premium, shall, upon delivery of such premium, remain the property of the Society.

Where premiums or bounties are obtained in consequence of specimens produced, the Society will retain such part of those specimens as they may judge necessary, making a reasonable allowance for the same.

No member of this Society shall be a candidate for, or entitled to receive, any premium, bounty, or reward whatsoever, except the honorary medals of the Society.

No candidate, not a member, shall be present at any meeting of the Society or committees, or be admitted at the Society's rooms, after having delivered in his claims, until such claims are adjudged, unless summoned by the committee.

Any candidate for a reward being detected in any attempt to impose upon the Society, shall forfeit such reward, and be deemed incapable of obtaining any for the future.

The consideration of the claims for the premiums offered in the present list will take place during the two sessions of the Society, 1838-39, and 1839-40. The several candidates and claimants, to whom the Society shall adjudge premiums or bounties, are to attend on the last Wednesday in May, or such other day as the Society shall appoint, to receive the same; and before that time no premium or bounty will be delivered, except by a special vote of the Society.

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## PROVINCIAL SOCIETIES.

Provincial Scientific Societies and Mechanics' Institutions, in any place not less than fifteen miles from London, desirous of becoming connected with this Society, and making an application, in writing, signed by their Secretary, accompanied by a copy of their Regulations, may, on payment of two guineas annually, be furnished with the annual volume of the Transactions, and with a ticket, transferable among the members of such Society (not being resident within fifteen miles of London), which shall admit the bearer as a visitor to the Museum and Library, and to all meetings of this Society and of the several committees.

Any Society having been admitted as above, and being desirous of possessing more than one transferable ticket, may obtain them on payment of one guinea annually for each additional ticket.

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## CLASS OF AGRICULTURE:

INCLUDING

PLANTING, GARDENING, AND EVERY BRANCH OF RURAL  
ECONOMY.

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For useful communications on any of these subjects, the Society will give Gold or Silver Medals, or Pecuniary Rewards, varying from Five to Fifty Pounds, according to circumstances; and it is particularly requested that such communications may be sent in,

if possible, not later than the first Monday in March, in order that they may be taken into consideration during the session in which they are received.  
The objects to which the attention of the public is more particularly directed are arranged under the following heads :—

### I.—IMPROVEMENT OF LAND.

For the discovery and application of superior or cheaper means of effecting any of the following objects :

1. Gaining extensive tracts of land from the sea, and bringing the same into cultivation.

2. Bringing into cultivation land previously lying waste.

3. Draining or otherwise improving land already under cultivation.

4. Making experiments for the purpose of quickly bringing substances employed as manure into a state fit to be used, and of ascertaining the best method of applying the substances already used as manure, or the successful introduction of any new substance for that purpose.

### II.—PLANTING AND MANAGING FOREST AND FRUIT-TREES.

5. Making extensive plantations of forest-trees, particularly on land unfit for other purposes.

6. Making experiments, or communicating information, concerning the kinds of trees best adapted for cultivation in different soils and situations — or on the best modes of making and managing plantations, or live or dead fences — or of planting, pruning, and managing fruit-trees and orchards, — or of securing plantations from injury by hares, rabbits, sheep, or cattle.

7. Communicating information respecting the best methods of preserving the blossoms of fruit-trees from injury by frost, and of ripening tender fruits in the open air.

8. Introducing new and improved species or varieties of forest or fruit-trees, or ornamental shrubs or other plants.

The Society will be glad to receive seeds, grafts, or cuttings, for distribution.

### III.—CULTIVATION OF CORN AND OTHER PLANTS.

9. Making experiments, or communicating information, on the different methods of growing wheat and other grain, and on the varieties of each, with the modes of culture best adapted to various soils and situations.

10. Communicating similar experiments or information on the various native and foreign grasses, clover, lucern, &c., and on the soils best adapted to them respectively.

11. Communicating information concerning the cause of, or remedy for, the rotting of the roots of clover in the ground.

12. Communicating new or improved methods of harvesting corn, or making hay in wet seasons.

13. Discovering new or improved means of preserving agricultural produce, particularly roots and plants, during the winter, in a fit state for feeding cattle and sheep in the spring.

14. The discovery of new and effectual means of importing from distant countries plants, roots, and seeds, in a living state.

15. Making experiments, or communicating information respecting the possibility of making plants flourish in climates and situations very different from those in which they are found native.

16. Introducing new and useful vegetables, or producing new and improved varieties of those already in cultivation; or introducing any improvement in managing fruit or kitchen-gardens.

17. Discovering effectual methods of destroying noxious insects and preventing blights, or in any way improving the health of trees or plants.

### IV.—CATTLE, SHEEP, PIGS, AND OTHER DOMESTIC ANIMALS.

18. Communicating new and useful information concerning the breeding, rearing, and feeding of cattle, or other domestic animals, with a view to improve their health or vigour, or to increase either the quantity or quality of the meat, milk, wool, or other produce.

19. Importing, breeding, and rearing, in this country, the Cashmere-shawl goat.

20. Ascertaining the value of salt in feeding cattle, or in improving the quality of hay injured by the weather.

### V.—AGRICULTURAL BUILDINGS AND MACHINES.

21. Inventing or improving machines for performing, in a superior manner, or at a cheaper rate, any agricultural operations.

22. Communicating any improvement in the construction of barns, stables, and other farm-buildings, or in the arrangement of a farm-yard, or in the construction and hanging of gates.

23. For any improvement in the method of building, heating, and managing hot-houses or conservatories.

## CLASS OF FINE ARTS.

All works in Architecture must be sent to the Society's house on or before the third Tuesday in January in each year; and all other works on or before the first Tuesday in March.

The Society will give gold and silver medals, and other honorary rewards, for meritorious works of art, either originals or copies, in the various branches of the Fine Arts, including historical subjects, portraits, and landscapes; flowers, fruit, and still-life; academical figures and studies; enamels and miniatures; designs in architecture, drawings of existing buildings, and of architectural ornaments or details; also drawings of machinery, and of works in civil engineering; also engravings and etchings either on steel or copper plates, or wood blocks; medal dies, gems, and cameos; works in lithography; models in wax or clay; carving in wood, ivory, or marble; anatomical, botanical, and other scientific modelling and drawing.

The performances sent in claim of the offered premiums must be delivered in without the names or any external intimation to whom they belong; but the candidates are required to affix on the front of their respective performances some motto or device, each performance having a different mark; and the same motto or device is to be inscribed on the *outside* of a paper, sealed up, containing *within* the name and residence of the candidate, and on the *outside* the sex and age; whether the candidate has previously received from the Society any, and what reward, and the year in which such reward was given; also to which of the six following classes the candidate belongs:

- I. Sons and Grandsons of Peers, or of Peeresses in their own right, of the United Kingdom.
- II. Daughters and Grandaughters of Peers, or of Peeresses in their own right, of the United Kingdom.
- III. Gentlemen Amateurs.
- IV. Ladies Amateurs.
- V. Gentlemen, artists by profession, or such as intend to become so.
- VI. Ladies, artists by profession, or such as intend to become so.

The various performances will be divided according to the above classes, and will be subdivided in reference to their styles and subjects, and, finally, to their being originals or copies, as follows:

For originals by candidates above the age of eighteen and under twenty-five.  
— under the age of eighteen.

For copies by candidates above the age of fourteen and under eighteen.  
— under the age of fourteen.

And, when so arranged, not more than two rewards will, under any circumstance, be given in the same subdivision.

In case a candidate shall in the same year send in more than one performance, such circumstance must be stated on the outside of each sealed paper, together with the mark affixed to each performance.

No candidate will be allowed to retouch or varnish a performance after it has been received by the Society.

No candidate can receive more than one reward in the same year; nor, unless in the great distinctions in art, of painting, sculpture, architecture, and engraving, having received one, shall afterwards receive an equal one in the same subdivision, or any reward in an inferior subdivision in the same department of art.

All copies must be on a different scale from the originals.

All works to which rewards are adjudged shall remain with the Society until after the second Wednesday in June.

The Society will require a specimen of the abilities of each successful candidate, to be made at their house in the Adelphi.

### *Stock Premiums.*

1. The Gold Medallion is offered for the best original design for a mercantile exchange, to be sent in on or before the third Tuesday in January 1839.

2. The Gold Medallion is offered for the

best original design for a naval monument, to be sent in on or before the third Tuesday in January 1840.

The designs sent in claim of the above two premiums must consist of one or more perspective views, with such other drawings



and plans as may be necessary to give a complete representation of the design; the principal drawing to be of a size suitable to a sheet of double elephant paper.

#### *Acton Premiums.*

3. The Gold Medallion is offered for the best design for a roof 100 feet span and 150 feet in length, with the walling necessary for its support; the design to be sent in on or before the third Tuesday in January 1839.

Such designs to consist of a plan and two sections, neatly outlined in Indian ink, and tinted, with a model of one bay or such larger portion as the candidate shall see fit.

A series of experiments to test its strength will be considered desirable.

The model and drawing to become the property of the Society.

4. The Gold Medallion is offered for the best drawing and model of the hull timbers of a steam-vessel, in longitudinal section, of 1000 tons burden. The design and model to be sent in on or before

the third Tuesday in January 1840, and to remain the property of the Society.

#### *Ticket of Admission.*

5. To the person who shall furnish an appropriate design to serve as a ticket of admission for strangers to see the great room and model room, &c. of the Society (the design to become the property of the Society);—*the Gold Isis Medal.*

#### *Application of Fine Art to Manufactures.*

6. For the best original design in outline, from the vegetable kingdom, adapted to broad silk, linen, or worsted loom-weaving, with a copy thereof by the same person put on ruled paper or *mise en carte*;—*the Silver Medal and Five Pounds.*

7. For the best original design as a subject for modelling or carving, adapted to furniture or internal decoration, by an operative mechanic in either of those branches of art;—*the Silver Medal and Five Pounds.*

## CLASS OF CHEMISTRY AND MINERALOGY.

Claims for premiums in this department, with full descriptions, certificates, and samples, where necessary, are to be sent in on or before the first Tuesday in February of the respective years for which they are offered.

#### *Generation of Steam.*

1. For the best method of generating steam, in such a manner that its quantity or force shall be materially increased, without increase of danger or expense;—*the Gold Medal.*

#### *Prevention of Smoke.*

2. For a method superior to any in use, and verified by practice, of preventing the emission of dense smoke from the chimneys of furnaces and fire-places;—*the Gold Medal.*

#### *Preventing Noxious Vapours in Manufactories.*

3. For a method, superior to any in use, and verified by actual trial, of preventing the ill effects arising from noxious fumes disengaged in smelting ores, or in other chemical or manufacturing processes;—*the Gold Medal.*

#### *Bar Iron.*

4. For any material improvement in the manufacture of bar iron;—*the Gold Medal.*

#### *Copper, Zinc, and Brass.*

5. For any improvement in the manu-

facture of either copper, zinc, or brass, so as to render them equal in quality to the same imported from abroad;—*the Gold Medal.*

#### *Metallic Alloys.*

6. For the best set of experiments on any metallic alloy that can be usefully applied to the arts;—*the Gold Isis Medal.*

The ingredients of the alloy to be two or more metals in a state of purity. The properties of the alloy particularly requiring notice are, the fusibility, the liability to tarnish when exposed to damp air, or to be acted on by ordinary fluids, the tenacity, the cohesive force, the compactness, or porosity, the colour and the degree of polish of which it is susceptible.

#### *Flint Glass for Optical Purposes.*

7. For flint glass free from veins, as dense and transparent as the best now in use, and quite fit for the purpose of opticians;—*the Gold Medal.*

8. For the best account of the causes of the defects of flint glass, with the means which have been employed to remedy the same, accompanied by suggestions for the improvement of the manufacture;—*the Silver Medal.*

*Crown Glass.*

9. For any material improvement in the manufacture of crown glass;—*the Gold Isis Medal.*

*Copper-plate Printers' Ink.*

10. For a method of manufacturing a black from which printers' ink may be made, equal to any hitherto known, and fit for the finest kind of copper-plate printing;—*the Gold Isis Medal.*

*Black Colour.*

11. For the best set of experiments on the various substances from which durable black can be made suitable for painting in oil or water-colours, or for printers' ink;—*the Gold Isis Medal.*

*Electricity.*

12. For any important useful application of electricity to the arts;—*the Gold Medal.*

The Society have in view the probable economical application of electricity, galvanism, electro-magnetism, or magneto-electricity, to chemical manufactures, to the production of motive power and of light.

*Dry Rot and Mildew.*

13. For a method or methods of preventing dry rot or mildew in timber, canvass, or other vegetable substances, superior to those already in practice;—*the Gold Medal.*

*Preventing the Destructive Effects from Moths.*

14. For a method of preventing the destructive effects occasioned by moths and other insects in furs, woollens, specimens of natural history, books, and other articles, superior to any hitherto known or practised;—*the Gold Medal.*

*Lithographic Stone.*

15. For the discovery in the United Kingdom, or in any British colony, of a bed of stone equal to the best German stone, for the purposes of lithography;—*the Gold Isis Medal.*

N.B. For useful communications on any of the applications of Chemistry to the Arts and Manufactures, especially in dyeing and calico-printing, and in the preparation of acids, alkalis, and compound salts, the Society will give Gold or Silver Medals, or Pecuniary Rewards, according to circumstances.

## CLASS OF COLONIES AND TRADE.

Claims for the following premiums are to be sent in on or before the second Tuesday in March.

It is absolutely necessary that all statements made by candidates residing in the colonies should be authenticated by the certificates of the governor or secretary of the colony, or by two justices of the peace, or other competent local authorities.

*Cashmere Wool.*

1. To the person who shall import the greatest quantity of real Cashmere wool, or other wool of equal quality and value, not less than 1 cwt., and in a state fit for spinning.—*the Gold Medal.*

Samples of the wool, not less than five pounds weight, to be produced to the Society.

*Nutmegs and Mace.*

2. To the person who shall grow the finest sample of nutmegs or mace, of good and merchantable quality, not less than twenty pounds weight, in any part of her Majesty's dominions in the West Indies, or in any British plantation on the coast of Africa, or of the several islands adjacent thereto, or in the island of Singapore, and

equal to those imported from the islands of the East Indies;—*the Gold Medal.*

Satisfactory certificates of the place of growth, with an account of the number of trees, their age, nearly the quantity of fruit on each tree, and the manner of culture, together with samples, to be produced to the Society.

For Mr. Lockhart's paper on the cultivation of the nutmeg, in the island of Trinidad, see the 48th volume of the Society's Transactions.

*Cinnamon.*

3. A premium, similar to the preceding, and on the same conditions, is offered for the growth of cinnamon.

*Black Pepper.*

4. To the person who shall raise, in any of the British West Indian islands or colonies, and shall import the largest

quantity, not less than 4 cwt., of good and marketable black pepper;—*the Gold Medal*.

Conditions the same as for No. 2.

#### *Silk.*

5. To the person who shall produce in any British colony, and shall import the greatest quantity of silk proper for manufactures, not less than one hundred pounds weight, from silk-worms bred there;—*the Gold Medal*.

Specimens of the silk, not less than one pound, with an account of the method in which the silk-worms were managed, the kind of mulberry-trees whence they were furnished with food, and particulars respecting the culture of the mulberry-trees for that purpose, to be produced to the Society.

6. To the person who shall import the finest quantity of silk grown in the East Indies, equal to the best Italian or China silk;—*the Gold Medal*.

One pound of the silk to be sent to the Society as a sample, with certificates that at least 100 lbs. of equal quality have been produced.

#### *Olive Oil.*

7. To the person who shall manufacture and import the finest specimen of oil, not less than ten gallons, the produce of olives grown in any British colony in Africa or New South Wales;—*the Gold Medal*.

Specimens of the oil, not less than two quarts, together with satisfactory certificates, to be produced to the Society.

#### *Wine from New South Wales.*

8. To the person who shall import the finest wine, not less than one pipe, of good marketable quality, made from the produce of vineyards in New South Wales;—*the Gold Medal*.

Samples of the wine, and certificates that the wine was made in the colony, to be produced to the Society, together with an account of the vineyards, and of the process of the manufacture.

#### *Dried Fruits.*

9. To the person who shall prepare and import into Great Britain the greatest quantity, not less than 100 lbs., of dried fruits similar to those now imported from the Mediterranean, of good quality, and the growth of the colony of New South Wales;—*the Gold Ceres Medal*.

Satisfactory certificates that the fruits were grown and prepared in the colony, with samples of the fruits, to be presented to the Society.

The same premium, on similar conditions, is offered for the colonies of the Cape of Good Hope, the Mauritius, and any British colony in the West Indies.

#### *Dried Plantains or Bananas.*

10. To any person who shall dry and import into Great Britain, from any British colony or possession, the best sample of plantains, or bananas, not less than 2 cwt.;—*the Gold Ceres Medal*. For the next in quality;—*the large Silver Medal*.

It is required that the candidates send to the Society a sample, not less than 10 lbs., with a certificate that at least 2 cwt. have been imported, of quality equal to the sample; also a written communication, stating the nature of the soil in which the plants have grown, the average weight of the bunches, the proportion of dried fruit from 100 lbs. of the fresh ripe fruit: together with a full detail of the whole method of preparation.

The following is the method (according to information received from Captain Colquhoun, R. Art.) adopted in the hot country (*terre caliente*) of Jalisco and Mechoacan.

The bunch of fruit is allowed to remain on the plant till it is perfectly ripe, and its native sweetness fully developed; it is then cut off, and the plantains, being removed from the stalks, are spread out in the sunshine, on netting, or frames of bamboo. When the fruit begins to shrivel, the outer skin is peeled off without trouble, and the drying is completed till the fruit is of the consistence of a fig, and becomes covered over with a white, mealy, sugary efflorescence. In this state it forms a luscious sweetmeat, the flavour of which resembles that both of the fig and of the date. For convenience of transport, it is pressed into masses of about 75 lbs. each, and is wrapped up in dried plantain-leaves.

#### *Cultivation of the Tea Plant.*

11. To the person who shall cultivate the greatest quantity of land, not less than five acres, with the tea plant, in the East Indies, or in any British colony;—*the Gold Medal*.

Certificates that such trees are growing, together with an account of the number of plants, their age, state, and mode of culture, to be produced to the Society.

#### *China Tea.*

12. To the person who shall communicate to the Society, from information obtained in China, the best and most authentic account of the culture of the plant or plants, the leaves of which furnish the

different kinds of tea; together with the methods of gathering, drying, and otherwise preparing the leaves;—*the Gold Medal.*

#### *Cinchona.*

13. To the person who shall communicate to the Society the best account of one or more of the species of cinchona, the bark of which is used in medicine, accompanied by specimens of the tree in leaf, flower, and seed; and not less than 10 lbs. of the bark;—*the Gold Medal.*

#### *Substitute for Hemp.*

14. To the person who shall import at least two tons of any vegetable fibre, which shall be equally cheap, strong, and durable, and applicable to all the purposes for which hemp is now used;—*the Gold Medal.*

#### *China Paper for Copper-plate Printing.*

15. To the person who shall communicate to the Society the best account of the process employed in China for the manufacture of paper used in England for copper-plate printing, and known by the name of India paper, together with an account of the materials from which such paper is made;—*the Gold Medal.*

Specimens of the paper, with samples of the materials in their raw or unmanufactured state, to be produced to the Society.

#### *China Porcelain.*

16. To the person who shall communicate to the Society the best account of the processes employed in China in manufacturing porcelain, with specimens of the earthen and plans of the furnaces;—*the Gold Medal.*

#### *Diminution of Human Labour in the Cultivation of Sugar, &c.*

17. To the person who shall produce to the Society a satisfactory account, founded on experience, of the most advantageous mode of diminishing the labour of persons employed in the cultivation of sugar, cotton, and coffee, in the West

Indian colonies, by the substitution of machinery, or of cattle;—*the Gold Medal.*

Persons wishing for information on this subject are referred to Mr. Booker's account of the management of a cotton plantation at Demerara, inserted in the 47th volume of the Society's Transactions.

#### *Caoutchouc.*

18. To the person who shall import not less than one ton of caoutchouc from any country from which it has not hitherto been obtained;—*the Gold Ceres Medal.*

#### *Peruvian Coffee.*

19. To the person who shall import the finest sample of Peruvian coffee, not less than one cwt.;—*the Gold Ceres Medal.*

For the next in quantity;—*the Silver Medal.*

The coffee must be at least equal to good Mocha coffee. A sample of the same, not less than 10 lbs., must be sent to the Society, accompanied by a satisfactory certificate of its being Peruvian coffee.

#### *Peruvian Brandy.*

20. To the person who shall import the finest sample, not less than ten gallons, of Peruvian brandy, known by the name of Italia brandy;—*the Gold Ceres Medal.*

The brandy must be at least equal to good Cognac brandy. A sample, not less than two quarts, to be sent to the Society, together with satisfactory certificates of its being Peruvian brandy.

#### *Galium Tinctorium.*

21. To the person who shall import in good and sound condition not less than fifty pounds of the dried roots of galium tinctorium, from which in Canada a bright and durable red pigment has been prepared, and of which a report is given in the 46th volume of the Society's Transactions;—*the Gold Ceres Medal.*

Samples, not less than 10 lbs., to be produced to the Society, together with certificates that the entire quantity has been imported.

## CLASS OF MANUFACTURES.

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For general conditions, see Agriculture.

The objects to which the public attention is particularly directed are arranged under the following heads :—

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### *Raw Materials.*

1. For the profitable conversion of any hitherto unused raw material found in Great Britain or Ireland, or which may be advantageously imported.

2. For successfully growing or raising silk in the United Kingdom.

### *Machinery.*

3. For improving the construction or mode of operation of any of the machinery or implements used in spinning, weaving, or dressing of silk, wool, cotton, or flax, or in the manufacture of paper.

### *Application of Chemistry to Manufactures.*

4. For improving the methods at pre-

sent in use in bleaching, dying, calico-printing, tanning, leather-dressing, or any other manufacture depending on chemical principles.

### *Glass and Potteries.*

5. For any improvements in the manufacture of glass, porcelain, or earthenware.

### *Metals.*

6. For any improvement in the manufacture of hardware, or of ornamental articles made entirely or partly of metal.

### *New Manufactures.*

7. For the invention and introduction of any new manufacture.

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## CLASS OF MECHANICS.

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*Including Hydraulic, Pneumatic, Optical, Mathematical, Astronomical, and Surgical Apparatus.*

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For the conditions of the premiums offered in this class, see those prefixed to the Agricultural premiums.

The attention of candidates is directed,—

1. To improvements in those important objects on which the interests of Great Britain essentially depend, namely, shipping, steam-engines, steamboats, and carriages, roads, bridges, railroads, tunnels, canals, docks, and harbours, and the machinery employed in extensive manufactures.

2. To improvements in the tools used in the various handicraft trades.

3. To the diminution of labour required to perform mechanical operations, either

by improving the apparatus employed, or the mode of using it.

4. To the improvement of optical, mathematical, and astronomical, and especially of nautical instruments, in respect to accuracy or facility of use.

5. To the diminution of danger attending certain machines and operations, namely, steam-boilers, gunpowder-mills, stage-coaches, and the operations of boring, blasting, and working mines and quarries.

# REWARDS

## BESTOWED DURING THE SESSION

1836—37.

### IN MECHANICS AND OTHER PRACTICAL ARTS.

1. To Mr. James Ryan, 59 Hare Street, Bethnal Green, for his instrument for drying silk in the loom, the Silver Isis Medal and Five Pounds.
2. To Mr. William Webb, 26 Wood Street, Spitalfields, and
3. To Mr. George East, 5 Turner's Square, Hoxton New Town, for their improved Jacquard machine for weaving figured velvet, two Silver Isis Medals.
4. To Mr. Henry Chapman, of the Royal Dock-yard, Woolwich, for his improved cross-tree for ships of war, the Silver Medal.
5. To Mr. J. Bowen, Corkbeg-Cloyne, for his dredging machine, Five Pounds.
6. To Mr. James Marsh, of the Royal Arsenal, Woolwich, for his percussion tubes for ships' cannon, the Silver Medal.
7. To Mr. J. Kingston, of the Royal Dock-yard, Woolwich, for his blow-off pipe for marine steam-engines, the Silver Medal.
8. To Mr. Isaac Dodds, Masbro', near Rotherham, for his safe plug for a steam-boiler, the Silver Medal.
9. To the same, for his cast-iron wheel for locomotive carriages, the Silver Medal.
10. To Mr. G. A. Patterson, 21 Coppice Row, Clerkenwell, for his repeating motion for a quarter clock, the Silver Medal and Ten Pounds.
11. To the same, for his vertical escapement for pocket watches, Five Pounds.
12. To Mr. H. Mapple, 69 Red Lion Street, Clerkenwell, for his escapement for timepieces, Five Pounds.
13. To Mr. T. Cole, 23 Upper King Street, Bloomsbury, for his clock escapement and self-adjusting pendulum, the Silver Medal.
14. To Messrs. C. and J. Mac Dowal, 21 Church Street, Kensington, for their centripetal dial plate for clocks, the Silver Isis Medal.
15. To W. Talbot Agar, Esq., Elm Lodge, Camden Town, for his instrument for turning over the leaves of a music book, the Silver Isis Medal.
16. To Edward Mammatt, Esq., Ashby-de-la-Zouch, for his writing apparatus for the use of the blind, the Silver Medal.
17. To Mr. W. Juggins, 22 James Street, Covent Garden, for his scale-weights of porcelain, the Silver Isis Medal.
18. To Mr. James Sperring, Duke Street, Bloomsbury, for his method of inclosing sliding doors, the Silver Isis Medal.
19. To Mr. Charles Arundel, 8 Great Mitchel Street, St. Luke's, for his improved router, the Silver Isis Medal.

20. To Mr. Andrew Ross, 15 St. John's Square, for his adjusting object-glass for a compound achromatic microscope, the Gold Isis Medal.

21. To Mr. T. Slacks, Langholm, for his method of building an obelisk without scaffolding, the Gold Isis Medal.

22. To Mr. Richard Jones, 75 Leman Street, for his improvement in the apparatus for raising and lowering the diving-bell, the Silver Medal.

### THE THANKS OF THE SOCIETY WERE VOTED TO

Captain Jenkins, the British Resident in Assam, for samples of cloth manufactured from the Area silk and the Moongha silk by the inhabitants of Lower Assam.

Commander J. Rorie, Plymouth, for a life-boat.

T. Tassel Grant, Esq., Clarence Yard, Gosport, for his life-buoy.

C. Daubeney, M.D., professor of chemistry in the University of Oxford, for his apparatus for taking a specimen of water from any depth.

Thomas Wicksteed, Esq., East London Water-works, Old Ford, for his experiments on the application of wooden wedges to secure the joints of water-pipes.

### IN THE FINE ARTS.

#### *Amateurs.*

#### COPIES.

23. To Mr. J. C. Day, 41 Camden Street, Camden Town, for a drawing of a head in chalk, the Silver Palette.

24. To Master W. Grant, 71 Cheapside, for a drawing in pencil of a horseman, the Silver Palette.

25. To Mr. Theodore Percival Wilson, Old Brompton, for a drawing in pen and ink of an etching, the Silver Medal.

26. To Mr. W. E. Ramsden, 47 Lincoln's Inn Fields, for a drawing in pencil of a landscape, the Silver Palette.

27. To Mr. H. D. Oldmeadow, Bushy Heath, Herts, for a drawing in pencil of a landscape, the Silver Palette.

28. To Miss Charlotte Cole, 57 Upper Norton Street, Portland Place, for a drawing in chalk of a figure, the Silver Palette.

29. To Miss F. Wycliffe Goodwin, Lynn, for a drawing in water-colours of a portrait, the Silver Isis Medal.

30. To Miss Emily E. Cole, 57 Upper Norton Street, Portland Place, for a drawing in pen and ink of a bull's head, the Silver Palette.

#### ORIGINALS.

31. To Miss Maria Pleydell Bouverie, 26 Hill Street, Berkeley Square, for a drawing in chalk from a bust, the Silver Palette.

32. To Mr. Edmund Goldsmid, 8 Cavendish Square, for an outline drawing from a bust, the Silver Palette.

33. To Mr. Thomas James, 29 Beckford Row, Walworth, for a portrait in oil, the Silver Medal.

34. To Mr. Francis J. Corbould, Abergavenny, for an historical composition in water-colours, the Silver Medal.

35. To Mr. Coutts Stone, Camden Hill, Kensington, for a drawing in chalk of two horsemen, the Silver Isis Medal.

36. To Mr. W. Collingwood, Greenwich, for a drawing in pencil of a landscape, the Silver Isis Medal.

37. To Miss Eliza Greenup Rickerby, Smith Street, Chelsea, for a lithograph drawing from a cast, the Silver Isis Medal.

38. To Miss Jane Brooks, Kitwells, Shenley Hill, Herts, for a drawing in pencil of a landscape, the Silver Medal.

39. To Miss Mary Ann Cole, 57 Upper Norton Street, Portland Place, for a lithographic drawing of figures, the Silver Medal.

40. To Miss Day, Camden Street, Camden Town, for a portrait in water-colours, the Silver Palette.

#### *Artists.*

#### COPIES.

41. To Mr. C. H. Matthews, 6 Chapman Street, Islington, for a drawing in pen and ink of an etching, after Berghem, the Silver Isis Medal.

42. To Mr. Stephen Egleton, 3 White Conduit Grove, Islington, for a drawing in sepia of figures, the Silver Isis Medal.

43. To Miss Sarah Pennington, 57 Old Broad Street, for a drawing in water-colours of a miniature, the Silver Isis Medal.

44. To Miss Eliza Owen Stanesby, 3 Vivian Terrace, Chelsea, for a lithograph of a head, the Silver Palette.

45. To Mr. Chas. Vacher, for a lithograph of a landscape, the Silver Medal.

46. To Miss Mary Baker, 9 George Street, Hanover Square, for a drawing in water-colours of a portrait, the Silver Isis Medal.

47. To Mr. Alfred Ashley, 31 Cross Street, Islington, for an engraving of Windsor (a copy), the Silver Palette.

48. To Mr. J. H. Rimbault, 9 Denmark Street, Soho, for an engraving on wood (a copy), the Silver Medal.

49. To Mr. J. Bott Atwell, 5 New Dorset Place, Clapham Road, for a drawing in Indian ink of a steam-engine, the Silver Palette.

50. To Mr. Henry Carver, Charlton, for a drawing in water-colours of the south front of Gloucester Cathedral, the Silver Isis Medal.

#### ORIGINALS.

51. To Mr. T. Clark, 3 William Street, Pentonville, for a painting in oil of a view in Normandy, the Gold Isis Medal.

52. To Mr. H. Sidney Melville, 34 Morn-

ington Crescent, for a composition in oil of figures and landscape, the Silver Medal.

53. To Mr. F. Goodall, Mornington Grove Cottage, for a drawing in water-colours of the gateway of Lambeth Palace, the Silver Isis Medal.

54. To Mr. E. Goodall, Mornington Grove Cottage, for a drawing in water-colours of the landing of the Lord Mayor at Blackfriars' Bridge, the Silver Medal.

55. To Mr. T. Hollis, 4 Gloster Buildings, Walworth, for an historical drawing in water-colours, the Gold Isis Medal.

56. To Mr. Marshall Claxton, 7 Newman Street, for a portrait in oil, the Gold Isis Medal.

57. To Mr. William Waterhouse, 39 Charterhouse Square, for a portrait in oil, the Silver Medal.

58. To Mr. S. Taylor, 64 Westbourne Terrace, Bayswater, for a portrait in water-colours, the Silver Medal.

59. To Mr. W. Joseph Rivers, 11 Church Street, Islington, for a painting in oil of a horse's head, the Silver Medal.

60. To Miss Sophia Sass, 6 Charlotte Street, Bloomsbury, for a drawing in chalk from a bust, the Silver Medal.

61. To Mr. Hugh Davies, 8 Smith Street, Chelsea, for a drawing in chalk from a bust, the Silver Isis Medal.

62. To Mr. James Clark Hook, Dalston, for a drawing in chalk from a bust, the Silver Medal.

63. To Mr. W. P. Frith, 6 Charlotte Street, Bloomsbury, for a finished drawing from a cast, the Silver Medal.

64. To Mr. Joseph Edward Fisher, 36 Leadenhall Street, for an outline drawing from a cast, the Silver Isis Medal.

65. To Miss Augusta Eliza Cole, 57 Upper Norton Street, Portland Place, for a portrait in miniature, the Gold Isis Medal.

66. To Mr. Charles Forster, jun., 7 Highworth Street, Lisson Grove, for a portrait in miniature, the Silver Medal.

67. To Mr. Benjamin B. Wadham, 27 St. David Street, New Kent Road, for a portrait in miniature, the Silver Isis Medal.

68. To Mr. Joseph Charles Day, 61 Poland Street, for a medallion portrait, the Silver Isis Medal.

69. To Mr. T. Pinches, 5 Porter Street, Soho, for a medal die of a figure, the Silver Medal.

70. To Mr. George Weatherhead, 43 Old Compton Street, for an intaglio in cornelian of a horse, the Silver Isis Medal.

71. To Miss Ellen Cole, 57 Upper Norton Street, Portland Place, for a lithograph in pen and ink, the Silver Medal.

72. To Mr. Richard Smith, 13 Dean Street, Westminster, for an engraving of figures, the Silver Medal.

73. To Mr. Edward Patten, 20 Aldenham Terrace, Somers' Town, for an engraving of a church, the Silver Medal.

74. To Miss Mary Ann Nichols, 6 Upper Thames Street, for a drawing in water-

colours of flowers from nature, the Silver Medal.

75. To Mr. E. B. Stephens, 78 Charlotte Street, Fitzroy Square, for a model of a figure, the Silver Medal.

76. To Mr. Charles Branwhite, Bristol, for a figure in bas-relief, the Silver Medal.

77. To Mr. Joseph Pitts, 5 Watkins Terrace, Pimlico, for a group of figures in bas-relief, the Silver Medal.

78. To Mr. C. Turner, 13 Turnham Place, Curtain Road, for a carving in wood of flowers, the Silver Medal.

79. To Mr. Ed. Baillie, 7 Henry Street, Cumberland Market, for an enamel on glass of figures, the Silver Medal.

80. To Mr. Robert W. Billings, Manor House, Kentish Town, for an outline etch-

ing of Windsor Castle, the Gold Isis Medal.

81. To Mr. J. Henry Steinmetz, Upper Homerton, for a design for a country mansion, the Silver Medal.

82. To Mr. James Bell, Wandsworth, for a design for a country mansion, the Silver Medal.

83. To Mr. J. Taylor, jun., 22 Parliament Street, for a design for a Gothic altar-piece, the Silver Medal.

84. To Mr. James Caporn, 250 Blackfriars' Road, for a set of drawings of West Thurrock Church, the Silver Medal.

85. To Mr. Eugenius Birch, Red Lyon Place, Giltspur Street, for drawings of a marine steam-engine, the Silver Isis Medal.

## REWARDS

BESTOWED BY THE SOCIETY DURING THE SESSION

1837--38.

### IN MECHANICS AND OTHER PRACTICAL ARTS.

1. To Messrs. G. and W. Bursill, 1 Queen's Head Lane, Islington, for their safe-lamp for miners, the Silver Medal.

2. To Mr. J. F. Goddard, Chatham, for his apparatus for experiments on polarising light, the Silver Medal.

3. To Mr. J. P. Paine, 39 High Street, Bloomsbury, for his escapement-wheel for turret-clocks, the Silver Medal.

4. To Mr. A. P. Walsh, 6 Great George Street, Euston Square, for his remontoire escapement, the Silver Isis Medal.

5. To Mr. Henry Mapple, 6 Upper Rosoman Street, Clerkenwell, for his resonant spring for a chamber lock, Five Pounds.

6. To Mr. J. Crockford, 1 Litchfield Street, Soho, for his ball-valve for water-pipes, the Silver Isis Medal.

7. To Capt. J. Ericsson, 4 Adelaide Place, London Bridge, for his hydrostatic weighing machine, the Silver Medal.

8. To Mr. Fred. Danchell, 11 Gerrard Street, Soho, for his tuning key for a piano-forte, the Silver Medal.

9. To Mr. W. Baddeley, Wellington Street, Blackfriars' Road, for his portable dam for use at fires, the Silver Medal.

10. To Mr. J. Burkitt, 4 Bartholomew Place, West Smithfield, for his self-supplying tympan to a printing-press, the Silver Isis Medal.

11. To Mr. W. Levick, 55 Great Ormond Street, for his furnace for type-founders, Five Pounds.

12. To Mr. C. Jenkins, 1 Harvey's Build-

ings, Strand, for his adjustable step-ladder, the Silver Isis Medal.

13. To Mr. A. Geo. Edye, R.N., for his instrument for ascertaining the stability of a ship, the Silver Medal.

14. To Mr. J. Farley, 2 Hart's Lane, Bethnal Green Road, for his improvement in the broad-silk loom, the Silver Medal and Five Pounds.

15. To Mr. Lewis Thompson, at Messrs. Hawes's, soap manufacturers, Lambeth, for his method of preparing Prussian blue, the Gold Isis Medal.

16. To the same, for his method of purifying copper, the Gold Medal.

17. To Mr. Wildman Whitehouse, 4 Francis Terrace, Kentish Town, for his method of making casts from morbid anatomical preparations, the Silver Medal.

18. To Mr. T. Carrick, Newcastle-on-Tyne, for his marble tablets to paint miniatures on, the Silver Isis Medal.

19. To Mr. J. Esquilant, 25 St. Alban Street, Kennington Road, for ornaments in leather for mouldings, &c., Ten Pounds.

### THE THANKS OF THE SOCIETY HAVE BEEN VOTED TO

Mr. A. Alexander, 6 High Street, Exeter, for his ventilating eye-shade.

Mr. J. P. Paine, 39 High Street, Bloomsbury, for his micrometer adjustment for the escapement of turret-clocks.

Mr. W. Kennish, carpenter on board H.M.S. Victory, for his paper on the comparative effects of black and white paint, as applied to shipping.



Col. Le Couteur, of the Island of Jersey, for his paper on hoeing wheat.

### IN THE FINE ARTS.

#### *Amateurs.*

##### COPIES.

20. To Mr. C. Patmore, 7 Upper Southampton Street, Fitzroy Square, for a copy in pencil of an animal, the Silver Palette.

21. To Miss Anne Raper, 44 Cambridge Terrace, Hyde Park, for a copy in oil of a figure, the Silver Palette.

22. To Miss Anna Maria Robertson, St. Peter's Square, Hammersmith, for a copy in pen and ink of a head, the Silver Isis Medal.

23. To Miss Fanny Wycliffe Goodwin, Chapel Street, Lynn-Regis, for a copy in oil of still life, the Silver Palette.

24. To Mr. J. C. Day, 41 Camden Street, Camden Town, for a model in clay of the faun's head, the Silver Isis Medal.

##### ORIGINALS.

25. To Mr. Geo. Goldsmid, 6 Tavistock Place, Tavistock Square, for a drawing in chalk of a figure, the Silver Isis Medal.

26. To Lieut. T. Bacon, 46 Lincoln's Inn Fields, for a drawing in water-colours, of a landscape, the Silver Medal.

27. To Miss G. M. Davies, 9 Paradise Row, Chelsea College, for a drawing in chalk from a bust, the Silver Isis Medal.

28. To Miss Clarkson, Manor House, Kentish Town, for a drawing in water-colours of a landscape, the Silver Medal.

29. To Miss Eliza G. Rickerby, 37 Smith Street, Chelsea, for a botanical drawing in water-colours of flowers, the Silver Medal.

30. To Miss Sarah J. Andrews, Holly Cottage, Leyton, Essex, for a drawing in water-colours of flowers, the Silver Palette.

31. To Miss E. N. Van Worrell, New-castle-on-Tyne, for a drawing in water-colours of flowers, the Silver Medal.

#### *Artists.*

##### COPIES.

32. To Mr. Wyatt Papworth, 10 Caroline Street, Bedford Square, for an outline drawing of the screen of Sefton Church, the Silver Palette.

33. To Mr. Richard Lewis, 9 Gloucester Place, Camden Town, for an oil painting of a historical subject, the Silver Isis Medal.

34. To Mr. Angelo C. Hayter, 9 Stratford Place, for an oil painting of a historical subject, the Silver Medal.

35. To Master C. H. Woodman, 5 Great College Street, Camden Town, for a drawing in Indian ink of figures, the Silver Palette.

36. To Master C. W. Allen, 5 Montague Place, Kentish Town, for a pencil drawing of a landscape, the Silver Isis Medal.

37. To Miss Eliz. O. Stanesby, 1 Vivian Terrace, Chelsea, for a portrait in water-colours, the Silver Palette.

38. To Mr. Walter Anderson, 8 White Conduit Grove, Islington, for a portrait in sepia, the Silver Isis Medal.

39. To Mr. Robert O. Smith, 8 Queen Charlotte Row, New Road, for a model in plaster of a figure, the Silver Isis Medal.

##### ORIGINALS.

40. To Mr. J. W. Papworth, 10 Caroline Street, Bedford Square, for a design for an entrance to a park, the Silver Isis Medal.

41. To Mr. J. Taylor, jun., 22 Parliament Street, for a design for a church in the Gothic style, the Gold Medallion.

42. To Mr. Rob. W. Billings, Manor House, Kentish Town, for a painting in oil of a proposed restoration of the circular vestibule of the Temple church, the Silver Medal.

43. To Mr. H. Rogerson, 29 Lower Brook Street, Grosvenor Square, for a perspective view of fragments of architecture, the Silver Medal.

44. To Mr. J. Williamson, 16 King's Terrace, Pentonville, for a design of foliage, the Silver Isis Medal.

45. To Mr. Fred. Goodall, Mornington Grove, Hampstead Road, for a painting in oil of the interior of the Thames Tunnel, the Silver Medal.

46. To Master A. F. Reid, 15 Charing Cross, for an original portrait in chalk, the Silver Palette.

47. To Miss Mary Anne Nicholls, 23 Coles Terrace, Barnsbury, Islington, for a painting in water-colours of a macaw, the Silver Medal.

48. To Mr. Abraham Solomon, Sandys Street, Bishopsgate, for a drawing in chalk from a statue, the Silver Isis Medal.

49. To Mr. Jas. C. Hook, 18 South Lambeth, for a drawing in chalk from a statue, the Silver Isis Medal.

50. To Mr. J. H. Taunton, 18 New Hall Street, Birmingham, for a drawing of a steam-engine from actual admeasurement, the Silver Isis Medal.

51. To Mr. Richard Smith, 13 Dean Street, Westminster, for a miniature, the Silver Isis Medal.

52. To Miss Emma M. Derby, 12 Osna-burg Street, Portland Place, for a miniature, the Gold Isis Medal.

53. To Miss Isabel Blackmore, Dulwich, for a miniature, the Silver Medal.

54. To Mr. Sam. Manning, jun., 17 Newman Street, for a portrait-bust in marble, the Silver Medal.

55. To Mr. F. Bromley, Stanhope Terrace, Regent's Park, for a mezzotint engraving of a historical subject, the Gold Isis Medal.

A. AIKIN, *Sec.*